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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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**H04N 1/04**(21) Application number: **06142673**(71) Applicant: **PFU LTD**(22) Date of filing: **31.05.94**(72) Inventor: **ISHIDA SATOSHI**(54) **DOUBLE SIDE IMAGE READER**

(57) Abstract:

**PURPOSE:** To obtain the reader with simple structure and high read accuracy in the original transfer reader in which double side simultaneous reading of an opaque original and reading of a transparent original are both available with respect to the reader reading information recorded on a sheet medium as image information.

**CONSTITUTION:** A 1st light source lamp 11 and a 1st optical device 12 are arranged to one side of an original path and a 2nd light source lamp 21 and a 2nd optical device 22 are arranged to the other side. Transparent guides 52, 54 are formed on a guide face of original to which the 2nd optical light source lamp 21, a read optical path 13 of the 1st optical device 12 is made opposite to the 2nd light source lamp 21, the 2nd light source lamp 21 is lighted and the 1st light source lamp 11 is extinguished and the 1st optical device reads a transparent original. The difference in the luminous quantity resulting from reading a transparent original and an opaque original is absorbed by providing a different reflectance for reflecting mirrors or installing a reflector. Whether an original is a transparent original or an opaque original is

discriminated through the provision of an original detection mechanical sensor 32 and an optical sensor 33.

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